STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

| AMENDED REPORT | |
|---------------------|--|
| (highlight changes) | |

| | | APPLICA | TION FOR | PERMIT TO | DRILL | | | 5. MINERAL LEASE NO: ML-22452 | 6. SURFACE: | | |
|---------------------|--|---------------------------------------|--|-------------------|---------------|------------------------|---------------|---|----------------|--|--|
| 1A. TYPE OF WC | ork: D | 7. IF INDIAN, ALLOTTEE OF | | | | | | | | | |
| B. TYPE OF WE | LL: OIL 🗌 | GAS 🗹 | OTHER | SIN | GLE ZONE | MULTIPLE ZON | NE 🚺 | 8. UNIT or CA AGREEMENT NAME: UNIT #891008900A | | | |
| 2. NAME OF OPE | | 9. WELL NAME and NUMBE NBU 1021-2E | R: | | | | | | | | |
| 3. ADDRESS OF | OPERATOR: | | 10. FIELD AND POOL, OR W | /ILDCAT: | | | | | | | |
| 1368 S 120 | | | NATURAL BUTT | | | | | | | | |
| 4. LOCATION OF | , | | QTR/QTR, SECTION, TO MERIDIAN; | WNSHIP, RANGE, | | | | | | | |
| AT SURFACE: | 2068'FNL, | | SWNW 2 10 | S 21E | | | | | | | |
| AT PROPOSED | AT PROPOSED PRODUCING ZONE: 44 24 299 7 -109. 524 408 SWNW 2 10S 21E | | | | | | | | | | |
| 14. DISTANCE IN | MILES AND DIRE | ECTION FROM NE | AREST TOWN OR POS | OFFICE: | | | | 12. COUNTY: | 13. STATE: | | |
| 20.5 MILE | ES SOUTH | OF OURA | Y, UTAH | | | | | UINTAH | UTAH | | |
| 15. DISTANCE TO | NEAREST PRO | PERTY OR LEASE | LINE (FEET) | 16. NUMBER OF | ACRES IN LEAS | SE: | 17. NL | IMBER OF ACRES ASSIGNED | TO THIS WELL: | | |
| 471' | | | | | | 489.92 | | | 40.00 | | |
| | O NEAREST WELL R) ON THIS LEASE | L (DRILLING, COM E (FEET) | PLETED, OR | 19. PROPOSED | DEPTH: | | 20. BC | ND DESCRIPTION: | | | |
| | O TOPO C | | | | | 9,400 | RL | B0005237 | | | |
| 21. ELEVATIONS | (SHOW WHETHE | ER DF, RT, GR, ET | C.): | 22. APPROXIMA | TE DATE WORK | WILL START: | 23, ES | TIMATED DURATION: | | | |
| 5069'GL | | | | | | | | | | | |
| 24. | | | PROPOS | ED CASING A | ND CEMEN | TING PROGRAM | | | | | |
| SIZE OF HOLE | CASING SIZE, | GRADE, AND WE | IGHT PER FOOT | SETTING DEPTH | , | CEMENT TYPE, QU | JANTITY, ` | YIELD, AND SLURRY WEIGH | r | | |
| 12 1/4" | 9 5/8 | H-40 | 32.3# | 2,200 | 265 SX CI | LASS G | 1.18 Y | IELD 15.6 PPC | 3 | | |
| 7 7/8" | 4 1/2 | I-80 | 11.6# | 9,400 | 1930 SX 5 | 50/50 POZ | 1.31 Y | IELD 14.3 PPC | | | |
| | | | | | | | | | | | |
| | | | | <u>.</u> | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 25. | | | | ATTA | CHMENTS | | | | | | |
| VERIFY THE FOL | LOWING ARE AT | TACHED IN ACCO | PRDANCE WITH THE U | TAH OIL AND GAS C | ONSERVATION O | GENERAL RULES: | | | | | |
| WELL PL | AT OR MAR PRE | DADED DV LICENI | SED 61101/EVOD 00 E | NONEED | | MPLETE DRILLING PLAN | | | | | |
| | | | SED SURVEYOR OR E | | | | | | | | |
| ✓ EVIDENC | CE OF DIVISION C | OF WATER RIGHT | S APPROVAL FOR USE | OF WATER | FOF | RM 5, IF OPERATOR IS P | ERSON O | R COMPANY OTHER THAN T | HE LEASE OWNER | | |
| | | | | | | | | | | | |
| NAME (PLEASE | PRINT) SHEJI | LA UPCHE | GO | <i>_</i> | TITLE | REGULATOR | RY AN | ALYST | | | |
| SIGNATURE | /////////////////////////////////////// | Uh 1 | MARA | (110) | DATE | 11/7/2006E | CE | VED | | | |
| (This space for Sta | ite use only) | | / // | / | Appr | oved by the | V 1 3 | 2006 | | | |
| , space to: ota | 31 | | | 44. T | Utah | Division of | | | | | |
| | • | la . | 400 4 = | 704 1 404 1 | Oil, Ga | as and Migrin | 9 , GA | S & MINING | | | |
| API NUMBER AS | SIGNED: | <u> 13-047-</u> | <i>3</i> 8838_ | Agit is an | APPROVAL | : | ` | | | | |

(See Instructions on Reverse Side)

By:

Kerr-McGee Oil & Gas Onshore LP T10S, R21E, S.L.B.&M. Well location, NBU #1021-2E, located as shown in the SW 1/4 NW 1/4 of Section 2, 1977 Brass Cap, 1977 Brass Cap, Brass Cap Pile of Stones T10S, R21E, S.L.B.&M. Uintah County, Utah. Pile of Stones T9SS89°06'40"W - 2646.10' (Meas.) S89°14'35"W - 2642.72' (Meas.) BASIS OF ELEVATION 1977 Brass Cap 1977 Brass Cap, 0.8' High, Pile T10S L2 1977 Brass 0.2' High, Pile Cap of Stones of Stones TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, LOT 4 LOT 3 LOT 2 LOT 1 UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT 2787.66 OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET. BASIS OF BEARINGS LINE TABLE BASIS OF BEARINGS IS A G.P.S. OBSERVATION. LINE **BEARING** LENGTH NO0.35,06 L1 S89'08'09"W 99.07 L2 S89'07'37"W 144.52 NBU #1021-2E L3 S89'24'29"W 164.46 Elev. Üngraded Ground = 5069' 1977 Brass Cap 1977 Brass Cap 1.0' High, Pile 1.0' High, Pile of Stones, Steel of Stones, Steel 500, 67, SCALE CERTIFICATE LAND 2680. THIS IS TO CERTIFY THAT THE FIELD NOTES OF ACTUAL SURVE SUPERVISION AND THAT THE S00°54°54"E BEST OF MY KNOWLEDGE AN 1977 Brass Cap, 1977 Brass Cap Steel Post. Pile 1.2' High, Pile of Stones Brass Cap of Stones UINTAH ENGINEERING & LAND SURVEYING S89'41'38"W - 2661.83' (Meas.) S89'38'31"W - 2660.80' (Meas.) 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017 LEGEND: (NAD 83) SCALE DATE SURVEYED: LATITUDE = 39.5846.01" (39.979447) DATE DRAWN: 1" = 1000'= 90° SYMBOL LONGITUDE = 109'31'37.63'' (109.527119) 09-15-06 09-17-06 PARTY REFERENCES (NAD 27) PROPOSED WELL HEAD. P.J. M.B. D.R.B. LATITUDE = 39.5846.14" (39.979483) G.L.O. PLAT WEATHER = SECTION CORNERS LOCATED. LONGITUDE = 109'31'35.16" (109.526433) WARM Kerr-McGee Oil & Gas Onshore LP

NBU 1021-2E SWNW SEC. 2, T10S, R21E UINTAH COUNTY, UTAH ML-22452

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. <u>Estimated Tops of Important Geologic Markers</u>:

| <u>Formation</u> | <u>Depth</u> |
|-------------------------|--------------|
| Uinta | 0- Surface |
| Green River | 1372' |
| Top of Birds Nest Water | 1628' |
| Mahogany | 2303' |
| Wasatch | 4620' |
| Mesaverde | 7389' |
| MVU2 | 8332' |
| MVL1 | 8940' |
| TD | 9400' |

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

| Substance | <u>Formation</u> | <u>Depth</u> |
|----------------|-------------------------|--------------|
| | Green River | 1372' |
| Water | Top of Birds Nest Water | 1628' |
| | Mahogany | 2303' |
| Gas | Wasatch | 4620' |
| Gas | Mesaverde | 7389' |
| Gas | MVU2 | 8332' |
| Gas | MVL1 | 8940' |
| Water | N/A | |
| Other Minerals | N/A | |

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9400' TD, approximately equals 5828 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3760 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

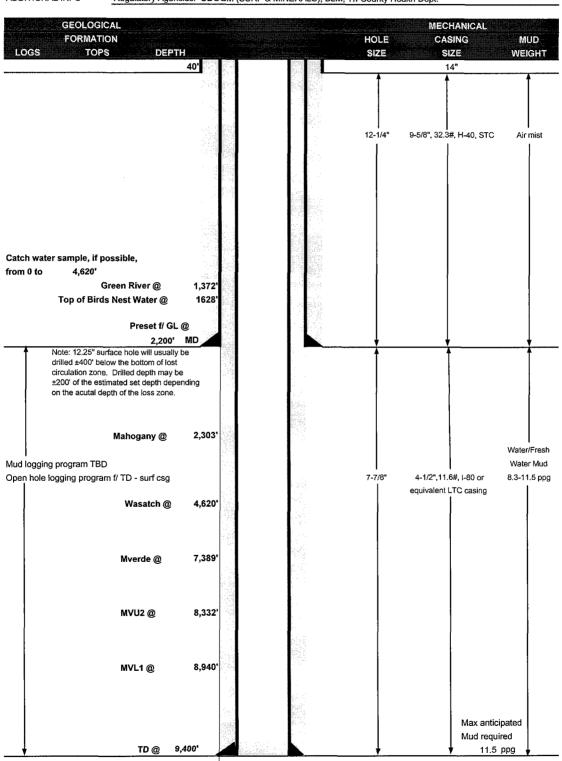
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

KERR-McGEE OIL & GAS ONSHORE LP COMPANY NAME DATE November 7, 2006 **NBU 1021-2E** WELL NAME TD 9,400' MD/TVD FIELD Natural Buttes COUNTY Uintah STATE Utah **ELEVATION** 5,069' GL KB 5,084' SURFACE LOCATION SWNW SEC. 2, T10S, R21E 2068'FNL, 471'FWL BHL Straight Hole Latitude: 39.979447 Longitude: 109.527119 OBJECTIVE ZONE(S) Wasatch/Mesaverde ADDITIONAL INFO Regulatory Agencies: UDOGM (SURF & MINERALS), BLM, Tri-County Health Dept.





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

| | | | | | | | DESIGN FACTO | DRS |
|------------|--------|-------------------|-----------|------|------------|-----------|--------------|---------|
| | SIZE | INTERVAL | WT. | GR. | CPLG. | BURST | COLLAPSE | TENSION |
| CONDUCTOR | 14" | 0-40' | | | | | | |
| | | REPRESENTATION OF | | | | 2270 | 1370 | 254000 |
| SURFACE | 9-5/8" | 0 to 2200 | 32.30 | H-40 | STC | 0.64***** | 1.33 | 4.08 |
| | | | 1,5, 5266 | | gradya (Öl | 7780 | 6350 | 201000 |
| PRODUCTION | 4-1/2" | 0 to 9400 | 11.60 | I-80 | LTC | 2.19 | 1.13 | 2.11 |
| | | | | | | | | |
| | | | | | | | | |

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
- 2) MASP (Prod Casing) = Pore Pressure at TD (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD =

11.5 ppg)

.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3553 psi

Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

| | FT. OF FILL | DESCRIPTION | SACKS | EXCESS | WEIGHT | YIELD |
|-----------------|-------------|---|------------|---------------|------------|----------------|
| SURFACE LEAD | 500 | Premium cmt + 2% CaCl | 215 | 60% | 15.60 | 1.18 |
| Option 1 | | + .25 pps flocele | | | | |
| TOP OUT CMT (1) | 200 | 20 gals sodium silicate + Premium cmt | 50 | | 15.60 | 1.18 |
| | | + 2% CaCl + .25 pps flocele | | | | 745 |
| TOP OUT CMT (2) | as required | Premium cmt + 2% CaCl | as req. | | 15.60 | 1.18 |
| SURFACE | | NOTE: If well will circulate water to s | urface, op | tion 2 will b | e utilized | 250.250 |
| Option 2 LEAD | 1500 | Prem cmt + 16% Gel + 10 pps gilsonite | 170 | 35% | 11,00 | 3.82 |
| | | +.25 pps Flocele + 3% salt BWOC | | | | |
| TAIL | 500 | Premium cmt + 2% CaCl | 180 | 35% | 15.60 | 1.18 |
| | | + .25 pps flocele | | | | |
| TOP OUT CMT | as required | Premium cmt + 2% CaCl | as req. | | 15.60 | 1.18 |
| | | | | | | <u>e Nasağ</u> |
| PRODUCTION LEAD | 4,120' | Premium Lite II + 3% KCI + 0.25 pps | 450 | 60% | 11.00 | 3.38 |
| | | celloflake + 5 pps gilsonite + 10% gel + 0.5% extender | | | | Aur I la Las |
| | | | | | | |
| TAIL | 5,280' | 50/50 Poz/G + 10% salt + 2% gel +.1% R-3 | 1480 | 60% | 14.30 | 1.31 |

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

| SURFACE | Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe. | | | | | | |
|------------|---|--|--|--|--|--|--|
| PRODUCTION | Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers. | | | | | | |
| | | | | | | | |

ADDITIONAL INFORMATION

| Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out. | |
|--|---|
| BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & | _ |
| tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper | _ |
| & lower kelly valves. | |
| Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees. | |
| Most rice have DVT Systems for much manifesting. If no DVT is available visual manifesting will be utilized | Τ |

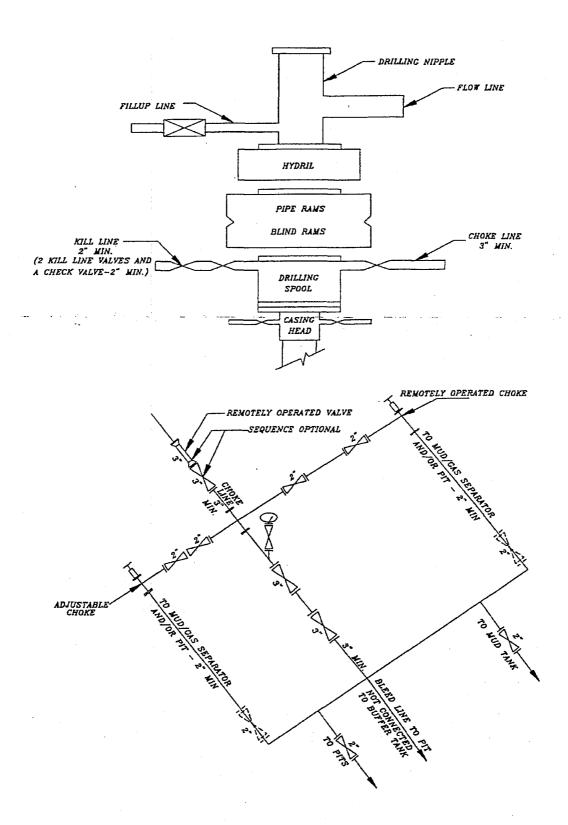
| DRILLING ENGINEER: | | DATE: | |
|--------------------------|------------|-------|--|
| | Brad Laney | | |
| DRILLING SUPERINTENDENT: | | DATE: | |

DRILLING SUPERINTENDENT:

Randy Bayne NBU1021-2E DHD.xls

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

5M BOP STACK and CHOKE MANIFOLD SYSTEM



NBU 1021-2E SWNW SEC. 2, T10S, R21E Uintah County, UT ML-22452

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

Approximately 122' +/- miles of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

Approximately 0.1 +/- miles of re-route road is proposed. Refer to Topo Map B.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. <u>Location of Existing Wells Within a 1-Mile Radius:</u>

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately 2100' \pm -of 4" pipeline is proposed from the location to an tie-in point. Refer to Topo Map D.

5. <u>Location and Type of Water Supply:</u>

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will

be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

8. Ancillary Facilities:

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface Ownership:

SITLA 675 East 500 South, Suite 500 Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

13. Lessee's or Operators's Representative & Certification:

Sheila Upchego Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP 1368 South 1200 East. Vernal, UT 84078 (435) 781-7024 Randy Bayne Drilling Manager Kerr-McGee Oil & Gas Onshore LP 1368 South 1200 East Vernal, UT 84078 (435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Sheila Upchego

11/7/2006

Date

Kerr-McGee Oil & Gas Onshore LP NBU #1021-2E SECTION 2, T10S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.9 MILES JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPOXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPOXIMATELY 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPOXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATLEY 0.4 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 51.4 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-2E

LOCATED IN UINTAH COUNTY, UTAH **SECTION 2, T10S, R21E, S.L.B.&M.**

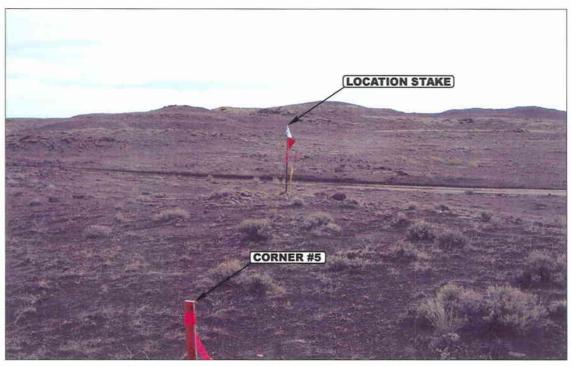


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY

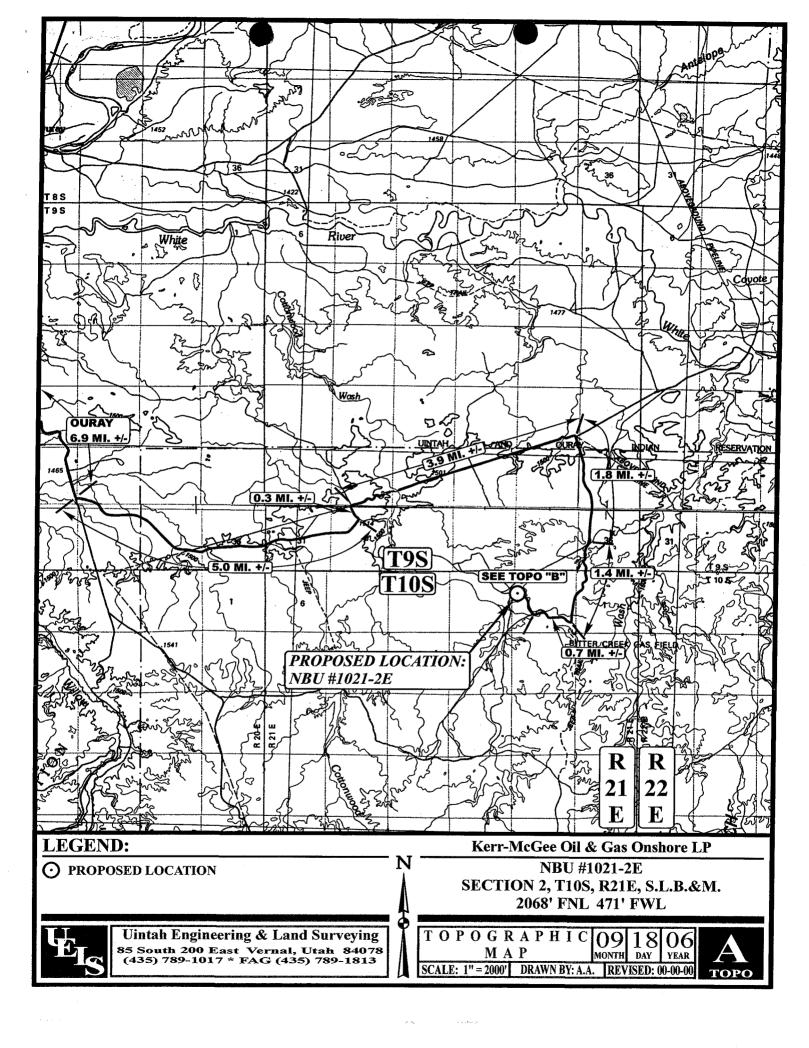


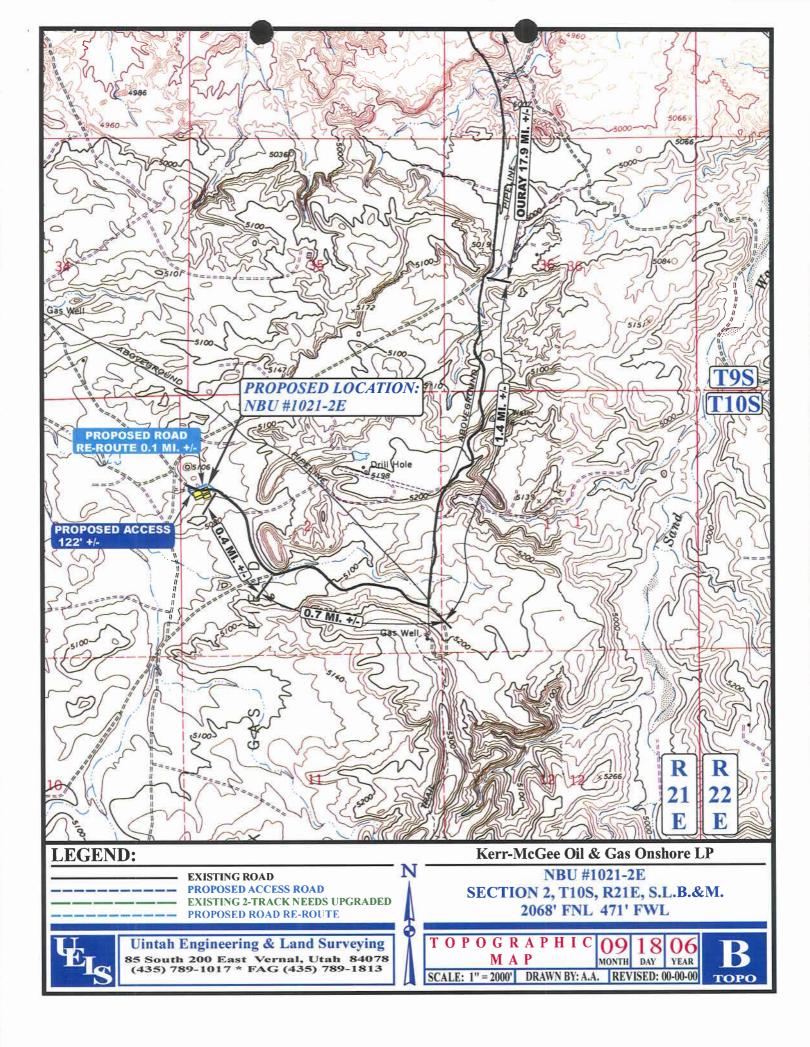
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 435-789-1017 uels@uelsinc.com

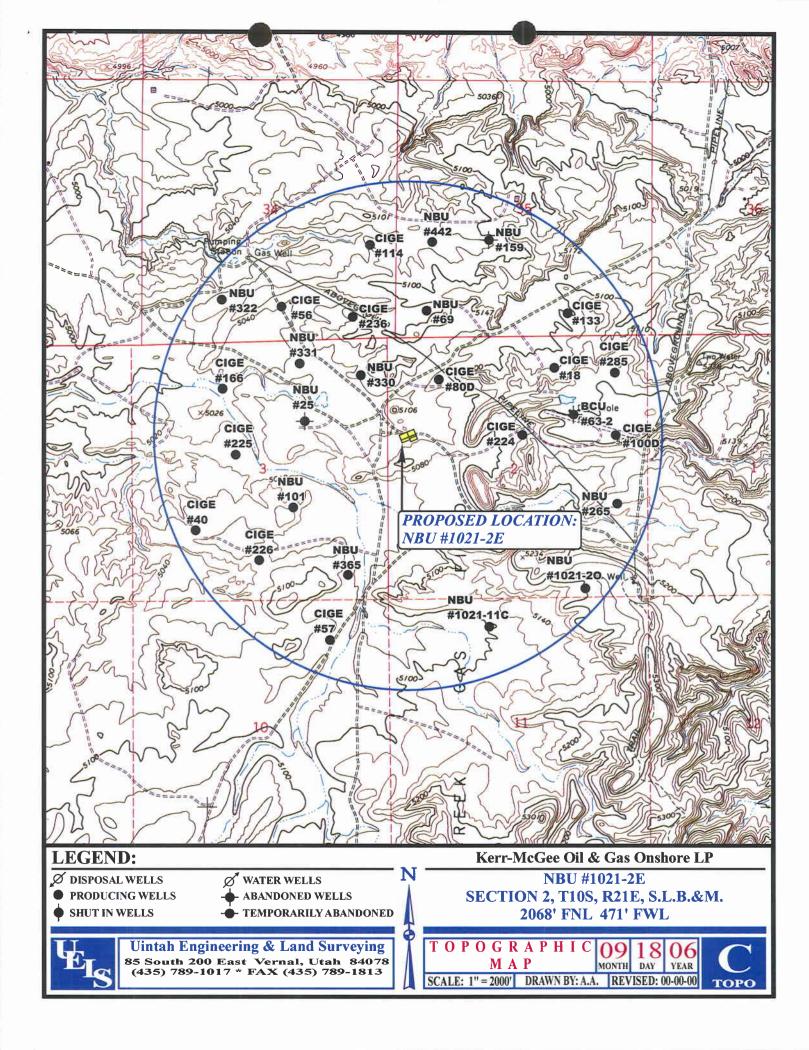
LOCATION PHOTOS

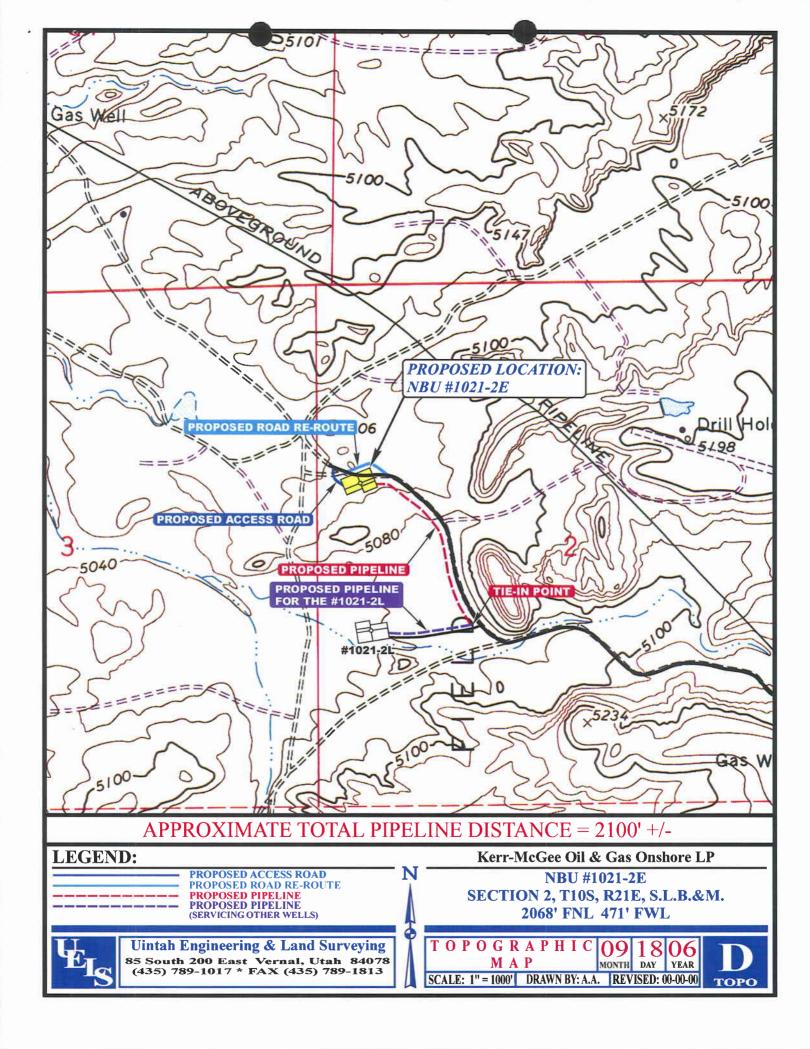
MONTH DAY YEAR TAKEN BY: P.J. | DRAWN BY: A.A. | REVISED: 00-00-00

РНОТО









Kerr-McGee Oil & Gas Onshore LP

NBU #1021-2E PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH **SECTION 2, T10S, R21E, S.L.B.&M.**

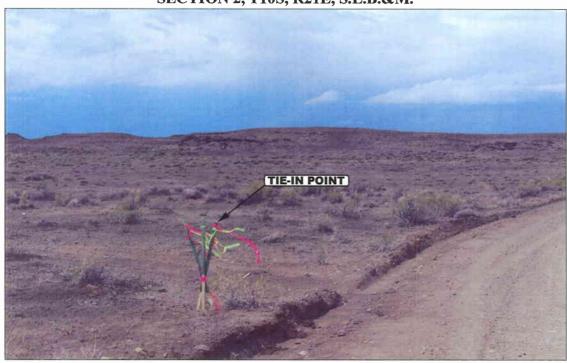


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE:NORTHWESTERLY



PHOTO: VIEW OF PIPELINE AT LOCATION

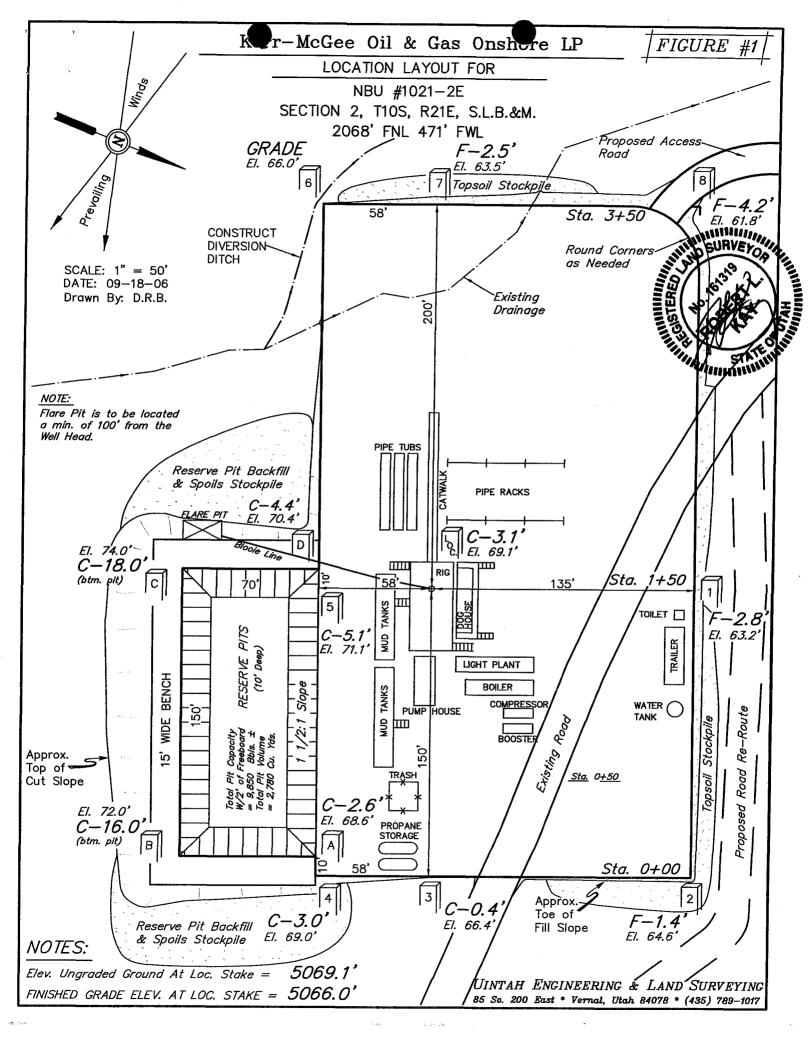
CAMERA ANGLE: NORTHWESTERLY

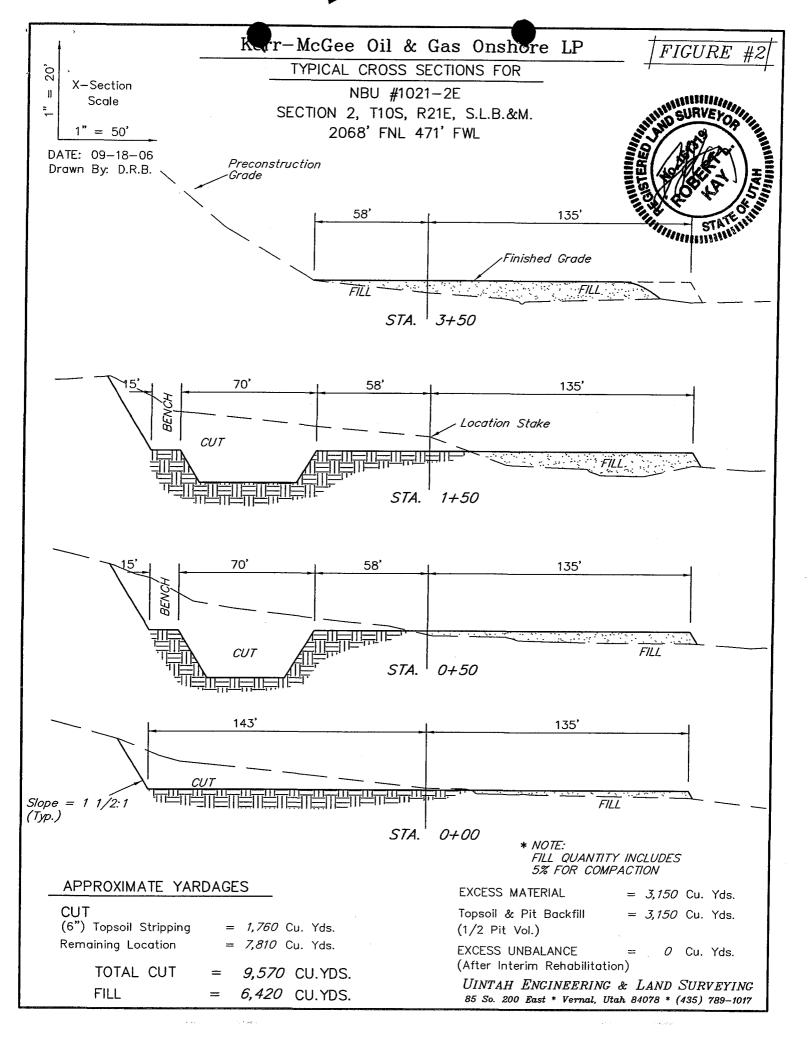


PIPELINE PHOTOS TAKEN BY: P.J. | DRAWN BY: A.A. | REVISED: 00-00-00

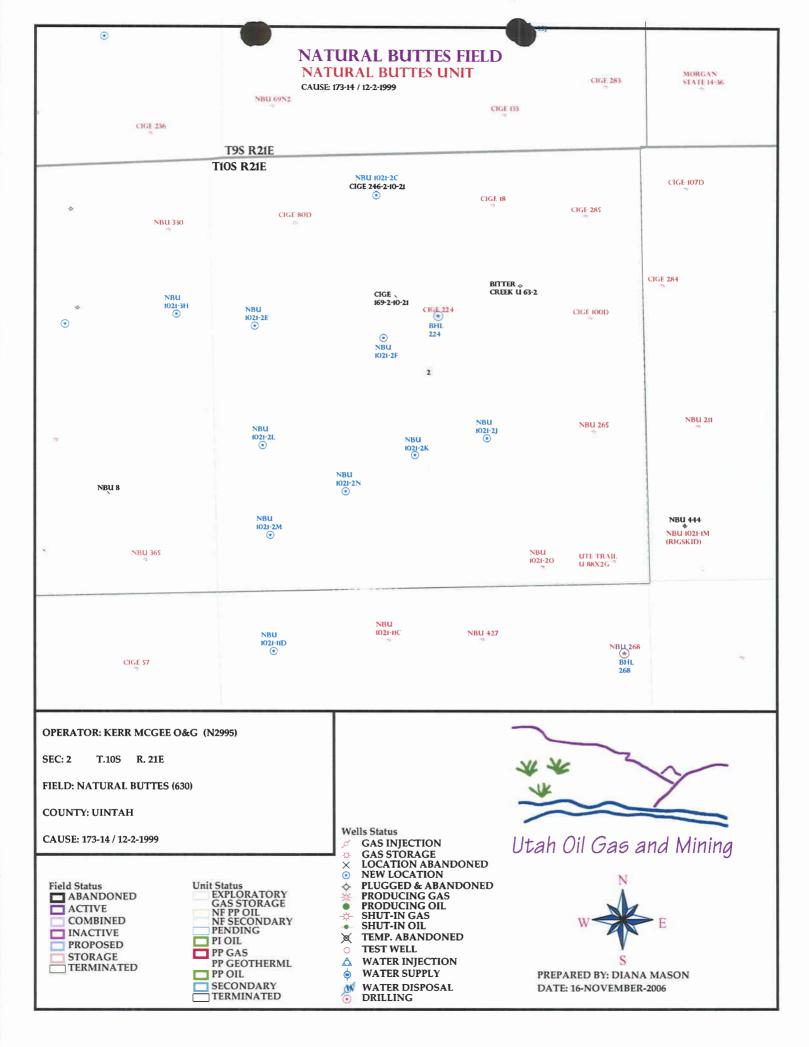
MONTH DAY YEAR

РНОТО





| APD RECEIVED: 11/13/2006 | | API NO. ASSIGNED: 43-047-38838 | | | | |
|--|---|--|----------------------|-----------------|--|--|
| WELL NAME: NBU 1021-2E | | | | | | |
| OPERATOR: KERR-MCGEE OIL & GAS (N2995) | • | PHONE NUMBER: | 435 - 781-702 | 24 | | |
| CONTACT: SHEILA UPCHEGO | | | | | | |
| PROPOSED LOCATION: | | INSPECT LOCATN | BY: / | / | | |
| SWNW 02 100S 210E SURFACE: 2068 FNL 0471 FWL | | Tech Review | Initials | Date | | |
| BOTTOM: 2068 FNL 0471 FWL | | Engineering | DKD | 12/13/06 | | |
| COUNTY: UINTAH | | Geology | | | | |
| LATITUDE: 39.97938 LONGITUDE: -109.5264 | | Surface | | | | |
| UTM SURF EASTINGS: 625829 NORTHINGS: 4426: FIELD NAME: NATURAL BUTTES (630 | | Bullace | | | | |
| LEASE TYPE: 3 - State LEASE NUMBER: ML-22452 SURFACE OWNER: 3 - State RECEIVED AND/OR REVIEWED: | LOCATI | PROPOSED FORMAT COALBED METHANE ON AND SITING: | | IVD | | |
| | | | | | | |
| Plat Bond: Fed[] Ind[] Sta[] Fee[] | R649-2-3. | | | | | |
| (No. 22013542) | Unit: NATURAL BUTTES | | | | | |
| N Potash (Y/N) | R | R649-3-2. General | | | | |
| Oil Shale 190-5 (B) or 190-3 or 190-13 | Siting: 460 From Qtr/Qtr & 920' Between Wells | | | | | |
| Water Permit | R | R649-3-3. Exception | | | | |
| (No. $\frac{43-8496}{\text{RDCC Review (Y/N)}}$) | √ D | _ Drilling Unit | | | | |
| (Date:) | | Board Cause No: | 173-14 | | | |
| NUA Fee Surf Agreement (Y/N) | | Board Cause No: Eff Date: Siting: 440'fv L | 12-2-199 | 19 mm . Trace S | | |
| NUM Intent to Commingle (Y/N) | | | | | | |
| | R | 649-3 - 11. Dire | CCIONAL DEL | 11 | | |
| COMMENTS: Needs Post | | 06) | | | | |
| | | | | | | |
| STIPULATIONS: 1- STATEME | | F Basis | | | | |
| 2-01c St | ALE, | <u> </u> | | | | |
| 3-50/1 csg | unt | >+1/2 | | | | |



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

November 22, 2006

Memorandum

To:

Assistant District Manager Minerals, Vernal District

From:

Michael Coulthard, Petroleum Engineer

Subject:

2006 Plan of Development Natural Buttes Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Natural Buttes Unit, Uintah County, Utah.

API#

WELL NAME

LOCATION

(Proposed PZ Wasatch/MesaVerde)

| 43-047-38838 | NBU | 1021-2E | Sec | 2 | T10S | R21E | 2068 | FNL | 0471 | FWL |
|--------------|-------|----------|-----|----|------|------|------|-----|------|-----|
| 43-047-38839 | NBU | 1021-2F | Sec | 2 | T10S | R21E | 2271 | FNL | 2090 | FWL |
| 43-047-38840 | NBU | 1021-2N | Sec | 2 | T10S | R21E | 1253 | FSL | 1545 | FWL |
| 43-047-38841 | NBU | 1021-2M | Sec | 2 | T10S | R21E | 0730 | FSL | 0576 | FWL |
| 43-047-38842 | NBU | 1021-2K | Sec | 2 | T10S | R21E | 1682 | FSL | 2432 | FWL |
| 43-047-38843 | NBU | 1021-2L | Sec | 2 | T10S | R21E | 1849 | FSL | 0520 | FWL |
| 43-047-38844 | NBU | 1021-2J | Sec | 2 | T10S | R21E | 1868 | FSL | 1998 | FEL |
| 43-047-38851 | State | 1022-250 | Sec | 25 | T10S | R22E | 1274 | FSL | 2121 | FEL |

This office has no objection to permitting the wells at this time.

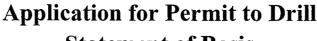
/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:11-22-06



Statement of Basis

11/30/2006

Utah Division of Oil, Gas and Mining

Page 1

APD No

API WellNo

Status

Well Type

Surf Ownr

CBM

157

43-047-38838-00-00

GW

S

No

Operator

Surface Owner-APD

KERR-MCGEE OIL & GAS ONSHORE. LP

Well Name NBU 1021-2E

Unit

Field

UNDESIGNATED

Type of Work

Location

SWNW 2 10S 21E S 0 FL 0 FL GPS Coord (UTM) 625829E 4426299N

Geologic Statement of Basis

Kerr McGee proposes to set 2,200' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,600'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of section 2. The well is approximately .5 miles from the proposed location. It produces from a depth of 2,640 and is listed as being used for oil field drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought to above the base of the moderately saline groundwater in order to isolate it from fresher waters uphole.

Brad Hill

11/30/2006

APD Evaluator

Date / Time

Surface Statement of Basis

The surface and minerals for the proposed location are both owned by SITLA. Mr. Jim Davis represented SITLA at the presite and had no concerns not covered in the APD.

The general area is the Sand Wash Drainage of Uintah, County. Sand Wash is approximately 36 air miles south of Vernal, Utah and approximately 18 miles southeast of Ouray, Utah. Access is by State of Utah Highways, Uintah County and oilfield development roads a distance of 51 miles from Vernal, UT.

Topography is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. White River is to the northeast about 3 miles. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

This proposed location is on a gentle north sloping bench. The south edge of the location is under some ledges. A rocky outcrop exists near the center of the location. An existing road runs thru the northeast corner of the location and will be re-routed north of the pad.

The proposed location appears to be the best site for drilling and operating a well in the immediate area.

Floyd Bartlett

11/17/2006

Onsite Evaluator

Date / Time

Conditions of Approval / Application for Permit to Drill

Category

Condition

Pits

A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be

properly installed and maintained in the reserve pit.

Utah Division of Oil, Gas and Mining

Operator

KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name

NBU 1021-2E

API Number

.....

API Number 43

43-047-38838-0

APD No 157

Field/Unit UNDESIGNATED

Location: 1/4,1/4 SWNW

Sec 2

Rng 21E 0 FL 0 FL

GPS Coord (UTM) 625828

4426310

Surface Owner

Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Carroll Estes (Kerr McGee), David Kay (UELS).

Regional/Local Setting & Topography

The general area is the Sand Wash Drainage of Uintah, County. Sand Wash is approximately 36 air miles south of Vernal, Utah and approximately 18 miles southeast of Ouray, Utah. Access is by State of Utah Highways, Uintah County and oilfield development roads a distance of 51 miles from Vernal, UT.

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Surface Use Plan

Current Surface Use

Grazing

Wildlfe Habitat

New Road

Miles Well Pad

Src Const Material

Surface Formation

0.05

Width 278

Length 350

Onsite

UNTA

Ancillary Facilities

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

The location is somewhat barren. A sparse vegetative cover of shadscale, horsebrush, prickly pear, halogeton, curly mesquite, cheat grass and budsage exists Antelope, rabbits, small reptiles, birds and mammals. Sheep graze the area in the winter

Soil Type and Characteristics

Shallow to moderately deep clay loam with scattered surface rock.

11/30/2006 Page 1

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required Y

A shallow drainage intersects the south wet corner of the proposed location. It will be diverted around the location.

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potental Observed? N Cultural Survey Run? Y Cultural Resources?

Reserve Pit

| Site-Specific Factors | | Site I | Ranking | | |
|-----------------------------------|------------------|-------------|---------|---|-------------------|
| Distance to Groundwater (feet) | >200 | | 0 | | |
| Distance to Surface Water (feet) | >1000 | | 0 | | |
| Dist. Nearest Municipal Well (ft) | >5280 | | 0 | | |
| Distance to Other Wells (feet) | 300 to 1320 | | 10 | | |
| Native Soil Type | Mod permeability | | 10 | | |
| Fluid Type | Fresh Water | | 5 | | |
| Drill Cuttings | Normal Rock | | 0 | | |
| Annual Precipitation (inches) | <10 | | 0 | | |
| Affected Populations | <10 | | 0 | | |
| Presence Nearby Utility Conduits | Not Present | | 0 | | |
| | | Final Score | 25 | 1 | Sensitivity Level |

Characteristics / Requirements

150' by 70' and 10'deep. The reserve pit is all within cut on the south east side of the location. A 15' wide bench is planned around the outer edges and 2' of freeboard.

A pit liner is required. Kerr McGee lines all pits with a 20 mil liner and a felt subliner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

Other Observations / Comments

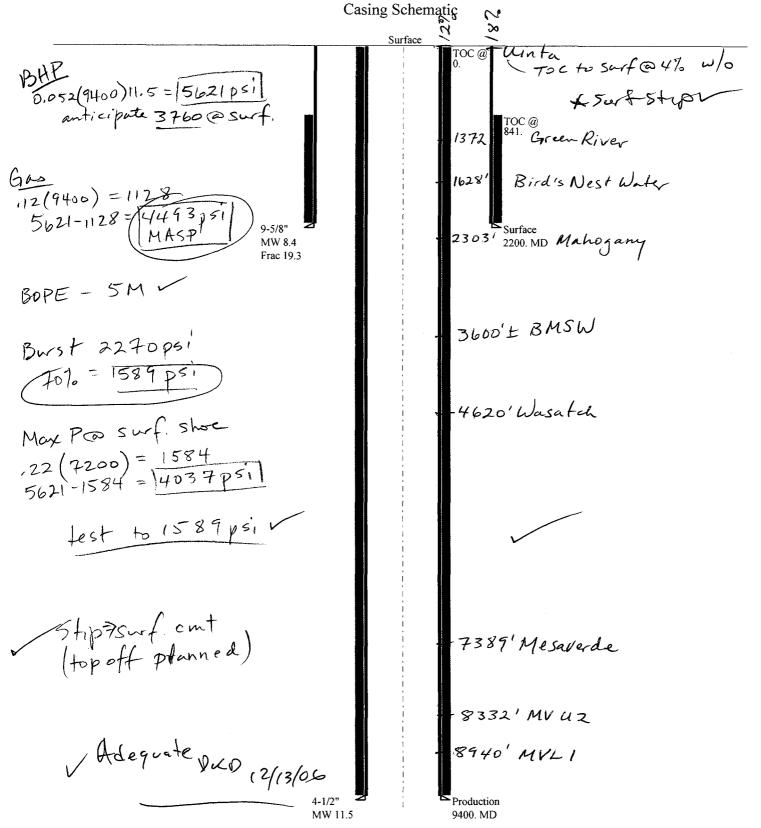
Ben Williams of the Utah Division of Wildlife Resources was invited to the presite. He was unable to attend.

Floyd Bartlett
Evaluator

11/17/2006

Date / Time

11/30/2006 Page 2



Well name:

2006-12 Kerr McGee NBU 1021-2E

Operator:

Kerr McGee Oil & Gas Onshore, LP

String type: Surface

Design parameters:

Project ID:

43-047-38838

Location:

Uintah County, Utah

Minimum design factors: **Environment:**

1.00

Collapse Collapse: Mud weight: 8.400 ppg

Design is based on evacuated pipe.

Design factor 1.125 H2S considered?

No Surface temperature: 75 °F

106 °F Bottom hole temperature: Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,500 ft

Burst:

Design factor

Cement top:

841 ft

Burst

Max anticipated surface

No backup mud specified.

pressure: Internal gradient: Calculated BHP

1,936 psi

0.120 psi/ft 2,200 psi

Tension:

8 Round STC: 1.80 (J)

1.80 (J) 8 Round LTC: **Buttress:** 1.60 (J) Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on buoyed weight. Neutral point: 1,929 ft

Re subsequent strings:

Non-directional string.

Next setting depth: Next mud weight:

9.400 ft 11.500 ppg 5,616 psi

Next setting BHP: Fracture mud wt: Fracture depth: Injection pressure:

19.250 ppg 2,200 ft 2,200 psi

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity (ft³) |
|------------|---------------------------|-------------------------------|-------------------------------|------------------------|----------------------------|----------------------------|---------------------------|-------------------------------|-------------------------------|
| 1 | 2200 | 9.625 | 32.30 | H-40 | ST&C | 2200 | 2200 | 8.876 | 972.1 |
| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor |
| 1 | 960 | 1370 | 1.427 | 2200 | `22 7 0 | 1.03 | 62 | ` 254 | 4.08 J |

Prepared

Helen Sadik-Macdonald Div of Oil, Gas & Minerals

Phone: (801) 538-5357 FAX: (801) 359-3940

Date: December 11,2006 Salt Lake City, Utah

Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



Well name:

2006-12 Kerr McGee NBU 1021-2E

Operator:

Kerr McGee Oil & Gas Onshore, LP

String type:

Location:

Production

Uintah County, Utah

Project ID:

43-047-38838

Design parameters:

Collapse

Mud weight: Design is based on evacuated pipe.

11.500 ppg

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:**

H2S considered?

Surface temperature: 75 °F Bottom hole temperature: 207 °F

Temperature gradient: 1.40 °F/100ft Minimum section length: 1,500 ft

Burst:

Design factor

1.00

1.80 (J) 1.80 (J) Cement top:

Surface

No

Burst

Max anticipated surface

pressure:

3,548 psi

Internal gradient: Calculated BHP

0.220 psi/ft

5,616 psi

No backup mud specified.

Tension:

8 Round STC: 8 Round LTC:

Buttress: 1.60 (J) Premium: 1.50 (J)

1.50 (B) Body yield:

Tension is based on buoyed weight. Neutral point: 7,784 ft

Non-directional string.

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity (ft³) | _ |
|------------|-----------------------------------|---------------------------------------|---------------------------------------|--------------------------------|------------------------------------|-----------------------------------|---------------------------------|--------------------------------------|---------------------------------------|---|
| 1 | 9400 | 4.5 | 11.60 | I-80 | LT&C | 9400 | 9400 | 3.875 | 820.3 | |
| Run Seq | Collapse Load (psi) 5616 | Collapse Strength (psi) 6360 | Collapse Design Factor 1.133 | Burst Load (psi) 5616 | Burst Strength (psi) 7780 | Burst Design Factor 1.39 | Tension Load (Kips) 90 | Tension Strength (Kips) 212 | Tension Design Factor 2.35 J | |

Prepared

Helen Sadik-Macdonald

Div of Oil, Gas & Minerals

Phone: (801) 538-5357 FAX: (801) 359-3940

Date: December 11,2006 Salt Lake City, Utah

Collapse is based on a vertical depth of 9400 ft, a mud weight of 11.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

From:

Ed Bonner

To:

Mason, Diana

Date:

2/14/2007 9:50 AM

Subject:

The following wells have been given cultural resource clearance by the Trust Lands

Cultural Resource

CC:

Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil; sheila.upchego...

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

```
Kerr McGee Oil & Gas Onshore LP
  NBU 1022-7H-4 (API 43 047 38570)
  NBU 1021-2E (API 43 047 38838)/
  NBU 1021-2F (API 43 047 38839)/
  NBU 1021-2M (API 43 047 38841),
  NBU 1021-2K (API 43 047 38842) /
  NBU 1021-2L (API 43 047 38843)
  NBU 1021-2J (API 43 047 38844)
  NBU 1021-36D (API 43 047 38845)
  NBU 1021-36E (API 43 047 38846)
  NBU 1021-36F (API 43 047 38847)
  NBU 1021-36N (API 43 047 38848)
  NBU 1021-36K (API 43 047 38849)
  NBU 1021-36C (API 43 047 38850) 1
  NBU 1021-1G (API 43 047 39001)
  NBU 1021-10 (API 43 047 39002)
  NBU 1021-1P (API 43 047 39003)
  NBU 1021-30I (API 43 047 39020)/
  NBU 1021-30J (API 43 047 39021)
  NBU 1021-30K (API 43 047 39022)
  NBU 1021-30L (API 43 047 39023) !
  NBU 1021-30M (API 43 047 39024)
  NBU 1021-30N (API 43 047 39025)
```

If you have any questions regarding this matter please give me a call.



State of Utah

Department of Natural Resources

MICHAEL R. STYLER Executive Director

Division of Oil, Gas & Mining

JOHN R. BAZA Division Director JON M. HUNTSMAN, JR.

GARY R. HERBERT Lieutenant Governor

February 14, 2007

Kerr-McGee Oil & Gas Onshore LP 1368 S 1200 E Vernal, UT 84078

Re:

NBU 1021-2E Well, 2068' FNL, 471' FWL, SW NW, Sec. 2, T. 10 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-38838.

Sincerely,

Gil Hunt

Associate Director

pab Enclosures

cc:

Uintah County Assessor (via e-mail)

Bureau of Land Management, Vernal District Office

SITLA

| Operator: | Kerr-McGee Oil & Gas Onshore LP | | | |
|--------------------|---------------------------------|--|--|--|
| Well Name & Number | NBU 1021-2E | | | |
| API Number: | 43-047-38838 | | | |
| Lease: | ML-22452 | | | |

Location: SW NW

Sec. 2

T. 10 South

R. 21 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment contact Dan Jarvis
- 24 hours prior to spudding the well contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well contact Dustin Doucet
- Any changes to the approved drilling plan contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

• Dan Jarvis at:

(801) 538-5338 office

(801) 733-0983 home

• Carol Daniels at:

(801) 538-5284 office

• Dustin Doucet at:

(801) 538-5281 office

(801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Page 2 43-047-38838 February 14, 2007

- 4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
- 5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
- 7. Surface casing shall be cemented to the surface.

RECEIVED

| | | | DEPA DIVIS | RTMENT OF N | OF UTAH ATURAL RESOURCES GAS AND MINING | NOV | | ENDED REPORT [] ghlight changes) |
|---|---|--------------------------|----------------|-------------------|---|------------------------|---------------------------------|----------------------------------|
| | | ICATIO | N FOR P | ERMIT TO | DRILL | - D | ML-22452 | State |
| | | | NTER | DEEPEN [| | | 7. IF INDIAN, ALLOTT | EE OR TRIBE NAME: |
| 1A. TYPE OF WOR | | | IER | | LE ZONE MULTIPL | E ZONE | 8. UNIT OF CA AGREE UNIT #89100 | MENT NAME: |
| B. TYPE OF WELL | | AS 🗾 OIF | | | | | 9. WELL NAME and N | IUMBER: |
| 2. NAME OF OPER KERR McGI | EE OIL & GA | S ONSHORE | L.P. | | PHONE NUMBE | R: | NBU 1021-2 | , OR WILDCAT: |
| 3. ADDRESS OF 0 1368 S 1200 | PERATOR: | OITY VERNAL | STATE | UT 21F 840 | | 7024 | NATURAL B | UTTES ON, TOWNSHIP, RANGE. |
| 4. LOCATION OF V | VELL (FOOTAGES) | | | | | | MERIDIAN: SWNW 2 | 10S 21E |
| | 2068'FNL, 47 | 71'FWL | | <i>*</i> つ ^ | 12 200 20 | , | SWINW 2 | 100 212 |
| | PRODUCING ZONE: | | | | 47.38838 | | 12. COUNTY: | 13. STATE: |
| | MILES AND DIRECTION | | | OFFICE: | | | UINTAH | UTAH |
| | NEAREST PROPER | | | 16. NUMBER OF | ACRES IN LEASE: | | 17. NUMBER OF ACRES AS | SIGNED TO THIS WELL: |
| 471' | | | | | | 39.92 | 20. BOND DESCRIPTION: | 40.00 |
| 18. DISTANCE TO | NEAREST WELL (DI) ON THIS LEASE (FI | RILLING, COMPLET EET) | ED, OR | 19. PROPOSED | | 9,400 | RLB0005237 | |
| REFER TO | TOPO C | | | 22. APPROXIMA | TE DATE WORK WILL START: | ,,100 | 23. ESTIMATED DURATION | t: |
| 5069'GL | (SHOW WHETHER L |)F, KT, GN, E10. | _ | | | | | |
| | | | PROPOSE | D CASING AN | ID CEMENTING PRO | GRAM | | |
| 24. | CASING SIZE GR | ADE, AND WEIGHT | | SETTING DEPTH | CEMENT | TYPE, QUAI | NTITY, YIELD, AND SLURRY | |
| 12 1/4" | 9 5/8 | H-40 | 32.3# | 2,200 | 265 SX CLASS G | 1. | 18 YIELD 15. | 6 PPG |
| 7 7/8" | 4 1/2 | 1-80 | 11.6# | 9,400 | 1930 SX 50/50 POZ | 1. | 31 YIELD 14. | 3 PPG |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 25. | | | | ATTA | CHMENTS | | | |
| VERIFY THE FOL | LOWING ARE ATTA | CHED IN ACCORDA | NCE WITH THE U | TAH OIL AND GAS C | ONSERVATION GENERAL RULE | ES: | RE | CEIVED |
| ✓ WELL PL | AT OR MAP PREPAI | RED BY LICENSED | SURVEYOR OR E | NGINEER | COMPLETE DRILL | ING PLAN | MA | R 3 0 2007 |
| EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER | | | | | | R THAN THE LEASE OWNER | | |
| V EVIDEN | 5E 6/ Bittleter e | | | | | | DIV. OF C | IL, GAS & MINING |
| | 01:20 | N LIDOUECO | | | TITLE REGU | LATOR | Y ANALYST | |
| NAME (PLEASE | PRINT) SHELF | UPCHEGO | will | IMS. | 11/7/20 | | | |
| SIGNATURE _ | | | | | | | | |
| (This space for St | ate use only) | , | 0 | 7 | | | ACCEPTER | DV DIM EOD |
| | | | | | | | • | BY BLM FOR |

UNIT PURPOSES UNLY

MAR 2 1 2007

APPROVAL:

API NUMBER ASSIGNED: _



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal Field Office 170 South 500 East Vernal, UT 84078 (435) 781-4400 Fax: (435) 781-4410



IN REPLY REFER TO: 3160 UT08300

March 22, 2007

Ramey Hoopes Kerr-McGee Oil & Gas Onshore, LP 1368 South 1200 East P.O. Box 1148 Vernal, Utah 84078

Re Application for Permit to Drill

NBU 1021-2E;

NBU 1021-2F;

NBU 1021-2J;

NBU 1021-2K;

NBU 1022-2L;

NBU 1021-2M

SITLA Surface Ownership

Dear Ms. Hoopes:

Enclosed are your copies of the above State referenced APDs which we have accepted for Unit purposes.

If you have any questions, please contact me at (435) 781-4422.

Sincerely,

//s// Phyllis Phillips Legal Instruments Examiner

Enclosures

CC:

Well File

Reading File

Division of Oil-Gas-Mining

RECEIVED

MAR 3 0 2007

DIV. OF OIL, GAS & MINING

| • | | FORM 9 | | |
|---|--|--|--------------|--|
| | | EASE DESIGNATION AND SERIAL NUMBER: 22452 | | |
| SUNDRY | 6. IF | INDIAN, ALLOTTEE OR TRIBE NAME: | | |
| Do not use this form for proposals to drill n drill horizontal la | and a constitution of the | NIT OF CA AGREEMENT NAME: NIT #891008900A | | |
| 1. TYPE OF WELL OIL WELL | | | | ELL NAME and NUMBER: BU 1021-2E |
| 2. NAME OF OPERATOR: KERR McGEE OIL & GAS | S ONSHORE LP | | | PI NUMBER: 04738838 |
| 3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST | Y VERNAL STATE UT ZIP | 84078 PHONE NUM (435) 78 | | FIELD AND POOL, OR WILDCAT: ATURAL BUTTES |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 2068'F | | | cou | NTY: UINTAH |
| QTR/QTR, SECTION, TOWNSHIP, RAN | ige, meridian: SWNW 2 10S 2 | 1E | STA | re: UTAH |
| 11. CHECK APPI | ROPRIATE BOXES TO INDICAT | E NATURE OF NOT | ICE, REPORT, | OR OTHER DATA |
| TYPE OF SUBMISSION | T | TYPE OF AC | | |
| NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: | ACIDIZE ALTER CASING CASING REPAIR | DEEPEN FRACTURE TREAT NEW CONSTRUCTION | | REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON |
| | CHANGE TO PREVIOUS PLANS | OPERATOR CHANGE | | TUBING REPAIR VENT OR FLARE |
| SUBSEQUENT REPORT (Submit Original Form Only) | CHANGE TUBING CHANGE WELL NAME | PLUG AND ABANDON PLUG BACK | | WATER DISPOSAL |
| Date of work completion: | CHANGE WELL STATUS COMMINGLE PRODUCING FORMATIONS | PRODUCTION (START/RE | _ | WATER SHUT-OFF OTHER: APD EXTENSION |
| | CONVERT WELL TYPE | RECOMPLETE - DIFFERE | | |
| THE OPERATOR REQUE SO THAT THE DRILLING | Uta | ONE YEAR EXTENSI | ON FOR THE S | UBJECT WELL LOCATION. |
| | Date: <u>©</u> By: | 2-25-06 | | COPY SENT TO OPERATOR Date: 2-26-2008 Initials: 145 |
| NAME (PLEASE PRINT) SHEILA L | JPCHEGO | TITLE SENI | OR LAND ADMI | N SPECIALIST |

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(This space for State use only)

Application for Permit to Drill Request for Permit Extension Validation

(this form should accompany the Sundry Notice requesting permit extension)

4304738838

API:

| Well Name: NBU 1021-2E Location: SW/NW SEC. 2, T10S, R21E Company Permit Issued to: KERR McGEE OIL AND GAS ONSHORE LP Date Original Permit Issued: 2/14/2007 |
|---|
| The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. |
| Following is a checklist of some items related to the application, which should be verified. |
| If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes □ No ☑ |
| Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes□No☑ |
| Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes□No☑ |
| Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes□No☑ |
| Has the approved source of water for drilling changed? Yes□No☑ |
| Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes□No☑ |
| Is bonding still in place, which covers this proposed well? Yes ☑No ☐ |
| Ma Canthers 2/6/2008 |
| Signature Date |
| Title: SENOIR LAND ADMIN SPECIALIST |
| Representing: KERR-McGEE OIL & GAS ONSHORE LP |

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Form 9

STATE OF UTAH

| Name & Signature Kathy Schneebeck Dulnoan Locky Schnells Du (State Use Only) | Title Staff R | egulatory Analyst Date 02/19/09 | |
|---|--|---|--|
| 14. I hereby certify that the foregoing is true and correct. | | 4 | |
| Initials: <u>V5</u> | By: | | |
| Date: 3.4.2009 | Date: 08-07 | 99 | |
| Thank you. COPY SENT TO OPERATOR | | | |
| Please contact the undersigned with any questions. | Utah Divisio Oil, Gas and I | · · - · | |
| on February 14, 2007. The APD has been extended and is currently | Approved by | y the | |
| Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee) respectfully relocation so that drilling operations may be completed. The original | APD was approved by the | ne Division of Oil, Gas, and Mining | |
| DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pert locations and measured and true vertical depths for all markers and zones pertine | | ates. If well is directionally drilled, give subsurface | |
| | on WELL COMPLETION * Must be accompani | Completions and Recompletions to different reservoirs DR RECOMPLETION AND LOG form. ed by a cement verification report. | |
| Approximate Date Work Will Start | Date of Work Completion | | |
| X Other APD EXTENSION | Date of Work Completion | | |
| Multiple Completion Water Shut-Off | Other | | |
| Fracture Treat Vent or Flare | Fracture Treat | Water Shut-Off | |
| Conversion to Injection Shoot or Acidize | Conversion to | | |
| Casing Repair Pull or Alter Casing Change of Plans Recompletion | Casing Repair Change of Plai | Pull or Alter Casing Shoot or Acidize | |
| Abandonment New Construction | Abandonment | | |
| (Submit in Duplicate) | (Sub | omit Original Form Only) | |
| 12. CHECK APPROPRIATE BOXES TO INDICATE NOTICE OF INTENT | | , REPORT, OR OTHER DATA SSEQUENT REPORT | |
| QQ, Sec, T., R., M : SWNW SEC2 T10S R21E | The state of the s | UTAH | |
| Footage : 2068' FNL 471' FWL | • | UINTAH | |
| P.O. BOX 173779 DENVER, CO 80217-3779 5. Location of Well | (720) 929-6007 | NATURAL DUTTES | |
| 3. Address of Operator P.O. BOY 172770 DENIVER CO 80217 2770 | 4. Telephone Number | 11. Field and Pool, or Wildcat NATURAL BUTTES | |
| KERR McGEE OIL & GAS ONSHORE LP | · | 4304738838 | |
| 2. Name of Operator | | 10. API Well Number | |
| Oil Gas Other (specify) | | NBU 1021-2E | |
| 1. Type of Well | | UNIT #891008900A 9. Well Name and Number | |
| Do not use this form for proposals to drill new wells, deepen existing wells; or to reenter Use APPLICATION FOR PERMIT for such proposals | 8. Unit or Communitization Agreement | | |
| SUNDRY NOTICES AND REPORTS OF | N WELLS | 7. Indian Anottee of Tribe Name | |
| | ML-22452 7. Indian Allottee or Tribe Name | | |
| DEPARTMENT OF NATURAL RESOLUTION OF OIL, GAS AND MINIT | 6. Lease Designation and Serial Number | | |
| | IN LAC 13 | | |

(8/90)

Application for Permit to Drill Request for Permit Extension Validation

Validation
(this form should accompany the Sundry Notice requesting permit extension)

| API: 4304738838 Well Name: NBU 1021-2E Location: 2068' FNL 471' FWL SWNW SEC2 T10S R21E Company Permit Issued to: KERR McGEE OIL & GAS Date Original Permit Issued: 2/14/2007 | |
|--|-----------------------------|
| The undersigned as owner with legal rights to drill on above, hereby verifies that the information as submitted approved application to drill, remains valid and does not be a submitted approved. | ed in the previously |
| Following is a checklist of some items related to the a verified. | pplication, which should be |
| If located on private land, has the ownership changed agreement been updated? Yes □ No □ | , if so, has the surface |
| Have any wells been drilled in the vicinity of the propo the spacing or siting requirements for this location? Ye | |
| Has there been any unit or other agreements put in ple permitting or operation of this proposed well? Yes□ N | |
| Have there been any changes to the access route incl of-way, which could affect the proposed location? Yes | |
| Has the approved source of water for drilling changed | ? Yes□No☑ |
| Have there been any physical changes to the surface which will require a change in plans from what was dis evaluation? Yes□No☑ | |
| Is bonding still in place, which covers this proposed w | ell? Yes ☑ No □ |
| Ledy Schmilk Durlin | 2/19/2009 |
| Signature | Date |
| Title: STAFF REGULATORY ANALYST | RECEIVED |
| Representing: KERR McGEE OIL & GAS ONSHORE LP | FEB 2 4 2009 |
| | DIV. OF OIL, GAS & MINING |



State of Utah DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

March 8, 2010

Kerr-McGee Oil & Gas Onshore, L.P. P.O. Box 173779 Denver, CO 80217

Re: APD Rescinded – Natural Buttes U 1021-2E, Sec. 2, T. 10S, R. 21E,

Uintah County, Utah, API No. 43-047-38838

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on January 14, 2007. On February 25, 2008 and March 2, 2009 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective March 8, 2010.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

Environmental Scientist

cc: Well File

SITLA, Ed Bonner

